

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193741

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL4-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9724 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

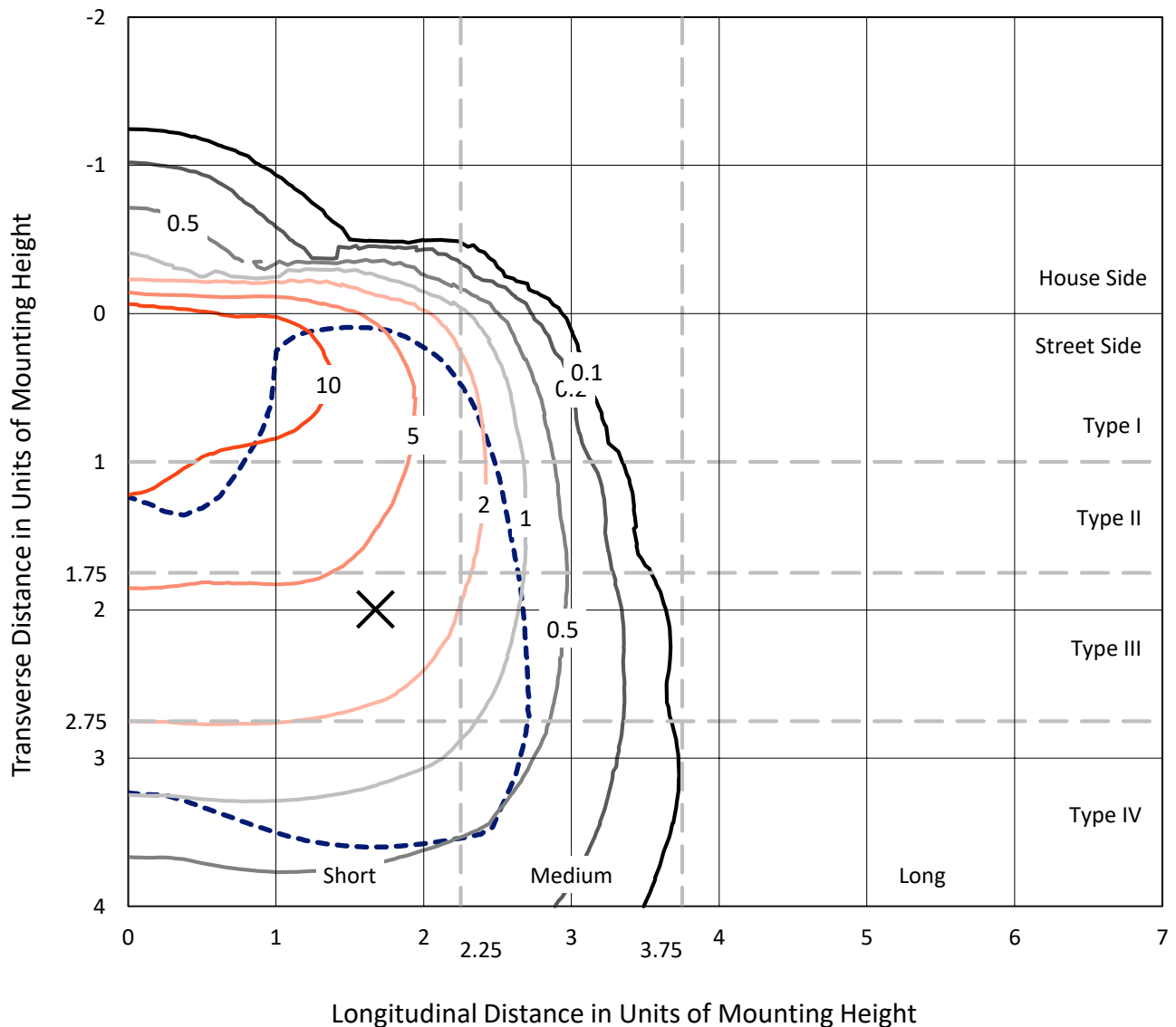


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

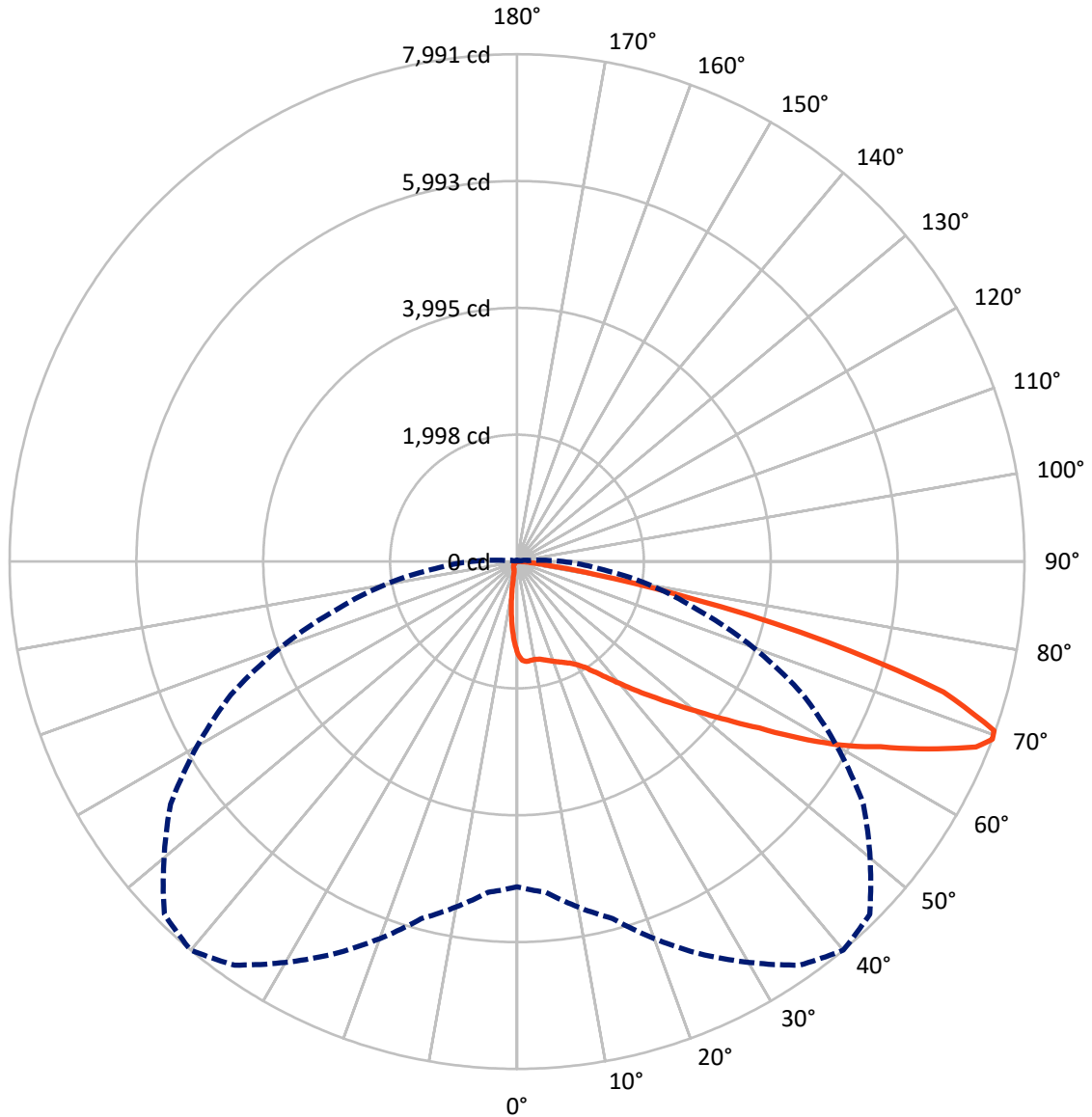


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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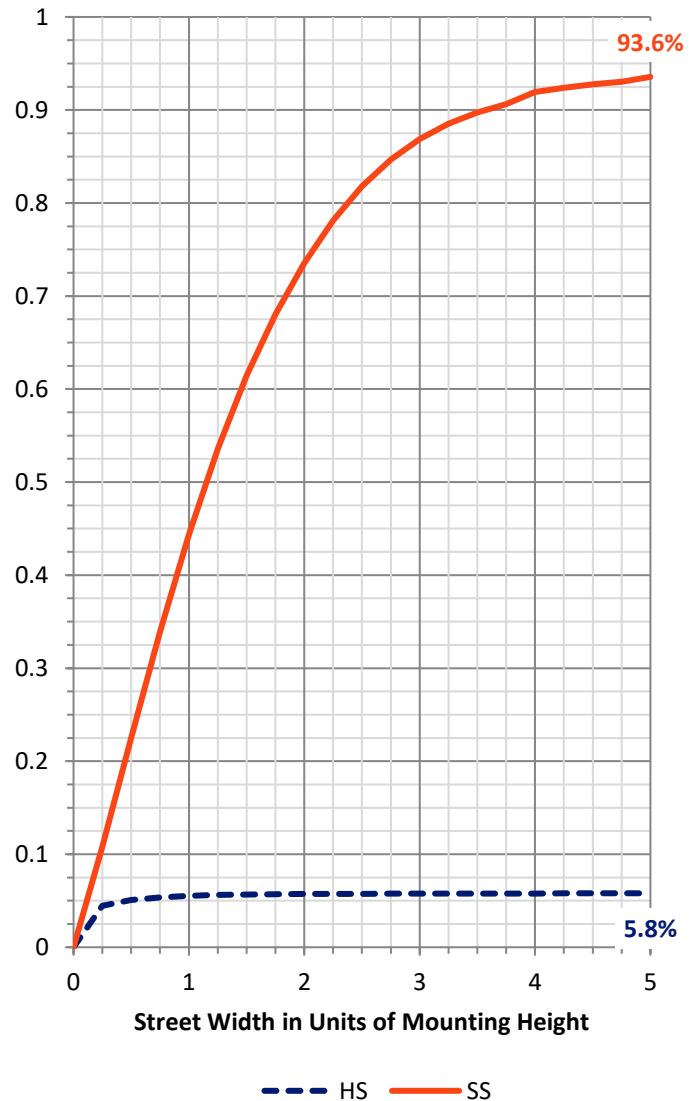
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	568.9	0.0	568.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	9155.1	0.0	9155.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	9724.0	0.0	9724.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	1.2
10°-20°	289.7	3.0
20°-30°	487.9	5.0
30°-40°	798.7	8.2
40°-50°	1383.0	14.2
50°-60°	2178.3	22.4
60°-70°	2844.8	29.3
70°-80°	1465.2	15.1
80°-90°	158.5	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9724.0	100.0
0°-180°	9724.0	100.0



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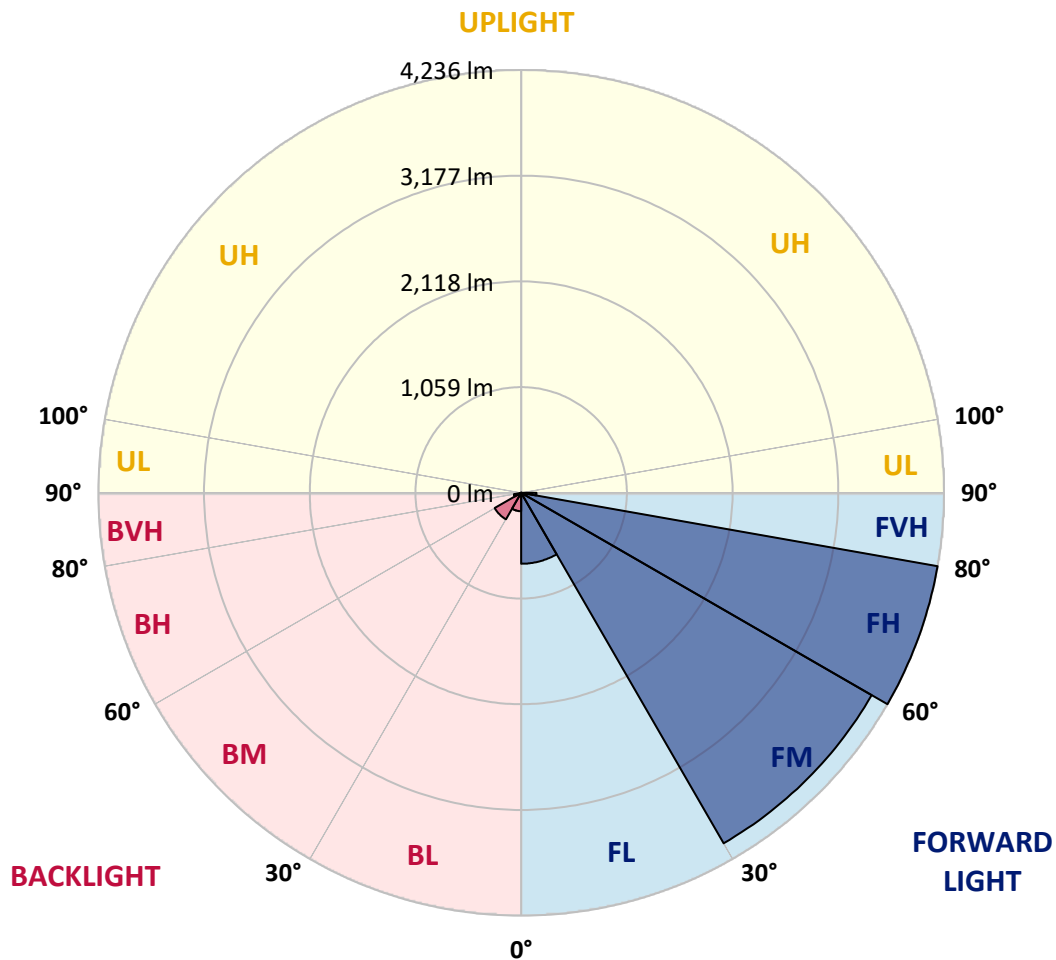
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	711.1	7.3			
FM	(30°-60°)	4054.3	41.7			
FH	(60°-80°)	4236.2	43.6			G2/5000
FVH	(80°-90°)	153.5	1.6			G2/225
BL	(0°-30°)	184.3	1.9	B1/500		
BM	(30°-60°)	305.8	3.1	B1/1000		
BH	(60°-80°)	73.9	0.8	B0/110		G0/110
BVH	(80°-90°)	5.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8
2.5°	1595.2	1586.5	1581.3	1574.4	1565.7	1558.2	1555.3	1533.8	1513.6	1485.8	1454.0
5°	1624.7	1621.8	1612.6	1603.3	1592.9	1581.3	1574.9	1549.5	1520.5	1480.0	1424.5
7.5°	1627.6	1624.1	1612.6	1599.8	1585.4	1571.5	1560.5	1535.0	1508.4	1467.3	1399.6
10°	1623.0	1618.9	1610.3	1596.4	1578.4	1565.1	1554.1	1529.8	1507.2	1470.2	1394.9
12.5°	1617.8	1613.7	1609.7	1602.7	1587.1	1577.8	1568.6	1545.4	1525.2	1493.9	1411.7
15°	1623.0	1620.7	1625.3	1622.4	1613.7	1605.6	1596.4	1575.5	1557.0	1531.0	1442.4
17.5°	1645.0	1645.0	1659.5	1661.2	1653.1	1641.5	1628.2	1607.4	1591.7	1569.7	1478.9
20°	1696.5	1694.8	1713.3	1716.8	1697.1	1679.1	1659.5	1634.0	1621.8	1607.9	1514.7
22.5°	1785.1	1776.9	1787.9	1784.5	1745.7	1717.9	1693.6	1662.3	1656.0	1649.6	1554.7
25°	1900.2	1895.6	1903.1	1869.0	1800.7	1763.1	1734.1	1698.8	1698.8	1705.2	1599.8
27.5°	2067.5	2050.1	2024.7	1964.5	1862.0	1814.0	1782.7	1745.1	1755.0	1778.7	1659.5
30°	2238.8	2219.7	2161.3	2068.7	1936.7	1886.3	1849.9	1810.5	1833.7	1877.1	1739.3
32.5°	2407.9	2386.4	2303.7	2186.7	2043.8	1993.4	1958.1	1914.7	1953.5	2026.4	1856.2
35°	2571.7	2552.6	2457.1	2319.3	2186.2	2144.5	2112.1	2074.5	2124.2	2226.1	2021.2
37.5°	2755.7	2734.9	2618.5	2469.2	2359.2	2329.1	2305.4	2267.8	2354.6	2503.9	2251.0
40°	2982.0	2946.7	2789.9	2641.1	2559.5	2545.0	2528.8	2523.6	2658.5	2865.1	2557.2
42.5°	3241.3	3183.5	2969.3	2822.3	2779.5	2789.9	2785.8	2809.0	3038.8	3314.3	2929.9
45°	3500.6	3426.0	3169.0	3015.6	3021.4	3057.9	3080.4	3173.0	3515.1	3829.4	3331.1
47.5°	3720.6	3647.1	3360.6	3224.6	3294.0	3365.8	3427.1	3602.5	4004.8	4336.5	3643.0
50°	3908.7	3839.3	3563.7	3454.3	3610.6	3726.4	3825.9	4085.8	4531.5	4722.5	3861.8
52.5°	4062.7	4016.4	3774.4	3717.7	3972.4	4142.0	4287.8	4599.2	4998.0	5036.2	4032.0
55°	4212.6	4179.6	4000.7	4030.8	4397.2	4628.2	4812.8	5143.9	5399.7	5297.9	4195.2
57.5°	4385.1	4355.0	4258.9	4427.9	4955.8	5246.3	5447.8	5626.6	5753.4	5565.3	4349.2
60°	4561.0	4543.7	4546.0	4869.0	5597.1	5876.1	5987.2	6033.5	6100.7	5817.1	4357.9
62.5°	4728.9	4761.9	4874.2	5359.8	6211.2	6425.4	6481.5	6527.3	6448.5	5857.0	4026.2
65°	5013.1	5066.9	5334.9	6016.7	6886.7	7115.9	7173.8	7016.9	6503.5	5340.7	3274.9
67.5°	5152.0	5250.4	5728.5	6629.1	7541.9	7796.6	7775.2	7048.8	5836.2	4072.5	2101.7
69°	5123.1	5227.8	5819.4	6816.7	7759.5	7990.5	7854.5	6659.2	4972.0	2950.2	1290.2
70°	5008.5	5114.4	5772.5	6809.7	7787.3	7970.2	7707.4	6178.2	4203.9	2157.2	806.9
72.5°	4182.5	4273.9	5124.8	6155.1	7173.8	7025.0	6448.0	4280.3	2048.4	587.5	181.7
75°	2574.6	2625.5	3677.2	4636.9	5418.2	5036.2	4295.9	2129.4	610.6	166.1	100.7
77.5°	1360.2	1383.4	2013.1	2733.1	3434.7	2842.0	2201.8	830.6	281.3	104.2	72.9
80°	804.0	821.3	1084.1	1249.7	1486.4	1241.5	880.4	509.9	201.4	65.4	64.8
82.5°	460.2	471.2	786.0	694.6	585.8	500.1	438.2	483.3	121.0	44.0	67.1
85°	169.0	171.3	442.2	528.5	348.4	207.2	217.6	400.5	32.4	27.8	52.7
87.5°	78.7	77.0	227.5	323.6	203.7	131.4	169.6	88.0	12.7	17.9	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8
2.5°	1435.5	1414.0	1375.3	1335.3	1294.8	1263.5	1232.9	1208.6	1200.5	1185.4	1186.6
5°	1391.5	1352.1	1271.1	1188.9	1103.2	1032.6	966.0	912.2	886.2	859.5	859.5
7.5°	1353.3	1296.0	1169.2	1035.5	897.2	780.8	676.1	597.3	553.9	519.2	518.6
10°	1338.8	1261.2	1084.1	892.5	699.8	541.2	416.7	336.9	295.8	269.1	268.0
12.5°	1345.2	1249.1	1018.7	760.6	518.6	347.9	241.4	189.9	172.5	164.4	164.4
15°	1363.7	1245.6	953.3	631.5	366.4	217.6	160.3	146.4	145.3	145.3	145.3
17.5°	1386.3	1246.8	886.2	505.9	249.5	155.7	138.3	136.6	137.8	137.8	137.8
20°	1409.4	1247.3	813.8	389.5	176.0	135.4	130.2	129.7	130.8	130.8	131.4
22.5°	1437.8	1250.2	741.5	291.1	145.3	127.9	123.9	123.9	124.4	124.4	123.9
25°	1470.2	1256.0	666.2	215.9	132.5	122.7	119.2	118.7	119.2	118.7	118.1
27.5°	1510.7	1264.1	582.3	169.0	126.8	117.5	114.6	114.6	114.0	113.4	112.9
30°	1561.6	1273.4	487.9	143.5	121.0	112.9	110.0	109.4	108.8	107.7	107.7
32.5°	1639.2	1293.6	394.7	130.2	114.6	106.5	104.2	104.2	103.0	101.9	101.3
35°	1758.4	1333.6	311.4	122.1	107.7	99.6	96.7	96.7	95.5	94.9	94.3
37.5°	1923.4	1394.4	241.9	114.6	100.7	92.0	89.1	88.6	87.4	86.2	85.7
40°	2142.8	1469.6	190.4	107.7	93.8	84.5	82.2	81.0	78.7	77.0	77.0
42.5°	2418.3	1555.3	154.5	100.1	85.7	77.6	75.8	74.1	70.0	68.3	67.7
45°	2706.5	1632.2	130.8	91.5	77.6	70.6	69.5	66.6	61.4	59.6	59.6
47.5°	2914.3	1650.2	115.2	83.3	70.0	63.1	62.5	57.3	52.7	51.5	50.9
50°	3044.0	1614.9	102.4	75.2	63.1	56.1	54.4	48.0	45.1	44.0	43.4
52.5°	3131.4	1551.8	92.0	68.3	56.7	49.8	45.7	41.1	38.8	37.6	37.6
55°	3201.4	1462.7	81.6	61.9	51.5	44.6	38.8	35.3	33.0	31.8	31.8
57.5°	3221.1	1341.7	71.2	56.7	46.3	39.4	33.0	30.7	27.8	27.2	27.2
60°	3078.1	1123.5	63.1	50.4	41.7	34.1	28.9	26.0	23.2	22.6	22.0
62.5°	2701.3	869.4	55.6	44.6	36.5	29.5	24.9	21.4	19.1	19.1	19.1
65°	2060.6	582.9	48.6	38.8	31.8	24.9	21.4	17.4	16.2	16.2	16.8
67.5°	1233.4	317.2	41.7	33.0	27.2	20.8	17.9	15.0	14.5	15.0	15.0
69°	722.9	186.4	37.6	29.5	23.7	18.5	15.6	13.3	14.5	15.0	15.0
70°	446.3	125.6	34.7	26.6	21.4	16.8	14.5	12.7	13.9	14.5	14.5
72.5°	124.4	64.8	27.8	20.8	17.4	13.9	11.6	11.6	13.3	13.9	13.9
75°	81.0	48.0	21.4	15.6	13.3	11.0	9.8	11.0	12.7	13.3	13.3
77.5°	67.1	39.4	17.4	12.7	11.0	10.4	9.3	9.8	11.6	12.2	12.2
80°	61.4	27.8	13.9	11.6	9.8	9.3	8.7	8.1	10.4	11.0	11.0
82.5°	58.5	22.0	12.2	10.4	9.3	8.1	7.5	8.1	9.3	9.8	10.4
85°	36.5	14.5	11.0	9.8	8.1	7.5	7.5	7.5	8.7	9.3	9.3
87.5°	13.3	11.6	9.8	8.1	6.9	6.9	6.9	6.9	7.5	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)